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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,446	04/23/2007	Sung-Hyun Lim	29137.146.00	3747
	7590 06/24/200 DNG & ALDRIDG E L	EXAMINER		
1900 K STREET, NW			TRAN, THAO T	
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			06/24/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/566,446	LIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thao T. Tran	1794				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	-· action is non-final.					
<i>,</i> —						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
ologod in accordance with the practice and in	x parte gaayle, 1000 G.B. 11, 10	0.0.210.				
Disposition of Claims						
 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 1-17 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/10/09:1/31/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	ite				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reich et al. (US Pat. 6,011,078) in view of Blount (US Pat. 4,260,696).

Reich discloses a primer composition, comprising from (a) 5.0 to 90.0% by weight of at least one water dispersible polymer P; (b) from 0.1 to 90% by weight of at least one radiation curable compound S which is different from P, and a pigment (see abstract).

Polymer P includes polyurethane that is a reaction product of a polyisocyanate and a polyol such as a polyhydric alcohol, a polyfunctional amine and/or amino alcohol (see col. 6, ln. 20-35).

Reich, however, does not teach the polyurethane comprising a Bronsted acid.

Blount discloses a sulphonated polyurethane that is neutralized by the addition of an amine (see col. 8, ln. 9-16).

Therefore, it would have been obvious to one of ordinary skill in the art to have employed the sulphonated polyurethane, as taught by Blount, in the primer composition Reich in order to enhance adhesion properties of the primer composition.

3. Claims 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ormsby et al. (US Pat. 4,889,413) in view of Reich and Blount as applied in claim 1 above.

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Reich and Blount are as set forth in claim 1 above and incorporated herein.

Ormsby discloses a photochromic article, comprising a photochromic polyurethane intermediate layer with photochromic compound. The polyurethane is formed from at one diisocyanate compound and at least one polyol (see abstract). Ormsby, however, does not teach the polyurethane intermediate layer as presently claimed.

The Reich combination teaches a primer polyurethane layer comprising the composition as above.

Therefore, it would have been obvious to one of ordinary skill in the art to have employed the primer composition, as taught by the Reich combination, in the intermediate layer of Ormsby in order to enhance the adhesion properties of the intermediate layer.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 571-272-1080. The examiner can normally be reached on Monday-Friday, from 9:00 a.m. - 5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on 571-272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thao T. Tran/ Primary Examiner, Art Unit 1794

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